

IN THE CLAIMS

Claims 1-7 and 9-20 are pending, claims 1, 13 and 17 are currently amended.

1 1. (Currently Amended) A method for controlling network digital broadcasting
2 service, comprising steps of:

3 directly requesting, at a client, without passing through a network session resource
4 manager, a digital broadcasting server for a session connection , and establishing a
5 session by receiving, without passing through said network session resource manager, a
6 confirmation message for the session connection from the digital broadcasting server; and

7 directly requesting, at the client, without passing through said network session
8 resource manager, the digital broadcasting server for a channel change, and changing a
9 channel by receiving, without passing through said network session resource manager, a
10 confirmation message for confirming the channel change from the digital broadcasting
11 server,

12 wherein a message for requesting the channel change and the confirmation
13 message for confirming the channel change each include a DSM-CC (Digital Storage
14 Media-Command and Control) message header field, the message for requesting the
15 channel change is a ProgramSelectRequest message including: the DSM-CC (Digital
16 Storage Media-Command and Control) message header field, a Session ID
17 (Identification) field, a STB (Set Top Box) status field, a broadcast ProgramId field, and
18 a Client ID field, and the ProgramSelectRequest message is transmitted from the client to

19 the digital broadcasting server.

1 2. (Original) The method according to claim 1, further comprising:

2 receiving, at the client, a message for checking a status of the client from the
3 digital broadcasting server, and directly delivering a confirmation message for checking
4 the status of the client to the digital broadcasting server.

1 3. (Original) The method according to claim 1, further comprising:

2 directly requesting, at the client, the digital broadcasting server for a session
3 termination and terminating a session by receiving a confirmation message for the session
4 termination from the digital broadcasting server.

1 4. (Original) The method according to claim 1, further comprising:

2 directly requesting, at the digital broadcasting server, the client for a session
3 termination and terminating a session by receiving a confirmation message for the session
4 termination from the client.

1 5. (Original) The method according to claim 1, further comprising the step of

2 directly receiving, at the client, a session termination request from the digital
3 broadcasting server, and terminating a session if the client cannot transmit a response to
4 the session termination request from the digital broadcasting server.

1 6. (Original) The method according to claim 1, wherein a protocol between the
2 client and the digital broadcasting server is a TCP/IP (Transmission Control
3 Protocol/Internet Protocol).

1 7. (Original) The method according to claim 1, wherein a message for requesting
2 the session connection is a SessionSetupRequest message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a Session ID
4 (Identification) field, a Reserved field, a Client ID field, and a Server ID field, and the
5 SessionSetupRequest message is transmitted from the client to the digital broadcasting
6 server.

8. (Canceled)

1 9. (Original) The method according to claim 2, wherein the message for checking
2 the status of the client is a ServerStatusRequest message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a Reason field, a statusType
4 field, a resourceNumber field for showing a number of a resource whose status is wanted
5 to be known, a Reserved field, and a client ID field, and the ServerStatusRequest message
6 is transmitted from the digital broadcasting server to the client.

1 10. (Original) The method according to claim 3, wherein a message for requesting
2 a session termination is a ClientReleaseRequest message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a session ID field, a Reason
4 field, and a ClientID field, and the ClientReleaseRequest message is transmitted from the
5 client to the digital broadcasting server.

1 11. (Original) The method according to claim 4, wherein a message for requesting
2 a session termination is a ServerReleaseRequest message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a session ID field, a Reason
4 field, and a ClientID field, and the ServerReleaseRequest message is transmitted from the
5 digital broadcasting server to the client.

1 12. (Original) The method according to claim 1, wherein the confirmation
2 message for confirming the session connection is a SessionSetupConfirm message
3 including: a DSM-CC (Digital Storage Media-Command and Control) message header
4 field, a Session ID (Identification) field, a response field, and a Server ID field, and the
5 SessionSetupConfirm message is transmitted from the digital broadcasting server to the
6 client.

1 13. (Currently Amended) A method for controlling network digital broadcasting
2 service, comprising steps of:

3 directly requesting, at a client, without passing through a network session resource
4 manager, a digital broadcasting server for a session connection, and establishing a session
5 by receiving, without passing through the network session resource manager, a
6 confirmation message for the session connection from the digital broadcasting server; and

7 directly requesting, at the client, without passing through the network session
8 resource manager, the digital broadcasting server for a channel change, and changing a
9 channel by receiving, without passing through the network session resource manager, a
10 confirmation message for confirming the channel change from the digital broadcasting
11 server,

12 wherein a message for requesting the channel change and the confirmation
13 message for confirming the channel change each include a DSM-CC (Digital Storage
14 Media-Command and Control) message header field, the confirmation message for
15 confirming the channel change is a ProgramSelectConfirm message including: the
16 DSM-CC (Digital Storage Media-Command and Control) message header field, a Session
17 ID (Identification) field, a response field, a broadcast ProgramId field, and a Client ID
18 field, and the ProgramSelectConfirm message is transmitted from the digital broadcasting
19 server to the client.

1 14. (Original) The method according to claim 2, wherein the confirmation
2 message for confirming the status of the client is a ServerStatusConfirm message
3 including: a DSM-CC (Digital Storage Media-Command and Control) message header

4 field, a Response field, a statusType field, a resourceNumber field for showing a number
5 of a resource whose status is wanted to be known, a resourceStatus field, and a client ID
6 field, and the ServerStatusConfirm message is transmitted from the client to the digital
7 broadcasting server for confirming the status of the client.

1 15. (Original) The method according to claim 3, wherein the confirmation
2 message for confirming a session termination is a ClientReleaseConfirm message
3 including: a DSM-CC (Digital Storage Media-Command and Control) message header
4 field, a session ID field, a response field, and a ClientID field, and the
5 ClientReleaseConfirm message is transmitted from the digital broadcasting server to the
6 client.

1 16. (Original) The method according to claim 4, wherein the confirmation
2 message for confirming a session termination is a ServerReleaseConfirm message
3 including: a DSM-CC (Digital Storage Media-Command and Control) message header
4 field, a session ID field, a response field, and a ClientID field, and the
5 ServerReleaseConfirm message is transmitted from the client to the digital broadcasting
6 server.

1 17. (Currently Amended) A system controlling a network digital broadcasting
2 service comprises:

3 a client and a digital broadcasting server, the client directly requesting, without
4 passing through a network session resource manager, the digital broadcasting server for a
5 session connection, and establishing a session by receiving, without passing through the
6 network session resource manager, a confirmation message for the session connection
7 from the digital broadcasting server; and

8 the client directly requesting, without passing through the network session
9 resource manager, a program change from the digital broadcasting server and receiving a
10 confirmation message, without passing through the network session resource manager,
11 from the digital broadcasting server, when the digital broadcasting server confirms the
12 program change,

13 wherein a message requesting the program change and the confirmation message
14 confirming the program change each include a DSM-CC (Digital Storage
15 Media-Command and Control) message header field, the message for requesting the
16 program change is a ProgramSelectRequest message including: the DSM-CC (Digital
17 Storage Media-Command and Control) message header field, a Session ID
18 (Identification) field, a STB (Set Top Box) status field, a broadcast ProgramId field, and
19 a Client ID field, and the ProgramSelectRequest message is transmitted from the client to
20 the digital broadcasting server..

1 18. (Original) The system according to claim 17, further comprising:

2 the client periodically receiving a message from the digital broadcasting server for

3 checking a status of the client, and directly delivering a client status confirmation
4 message, indicative of the status of the client, to the digital broadcasting server.

1 19. (Original) The system according to claim 17, further comprising:

2 the client directly requesting the digital broadcasting server for a session
3 termination and terminating a session by receiving a confirmation message for the session
4 termination from the digital broadcasting server.

1 20. (Original) The system according to claim 17, further comprising:

2 the digital broadcasting server directly requesting the client for a session
3 termination and terminating a session by receiving a confirmation message for the session
4 termination from the client.